

FEB 16 2003

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<110> Petrukhin, Konstantin
Caskey, C. Thomas
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Metzker, Michael L.

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Ser Lys Glu Leu Ile Thr Ala Trp Tyr Ile Gly Phe Leu Val Leu Ile		
180 185	190	
Phe Ser Ser Phe Leu Val Tyr Leu Val Glu Lys Asp Ala Asn Lys Glu		
195 200	205	
Phe Ser Thr Tyr Ala Asp Ala Leu Trp Trp Gly Thr Ile Thr Leu Thr		
210 215	220	
Thr Ile Gly Tyr Gly Asp Lys Thr Pro Leu Thr Trp Leu Gly Arg Leu		
225 230	235	240
Leu Ser Ala Gly Phe Ala Leu Leu Gly Ile Ser Phe Phe Ala Leu Pro		
245 250	255	
Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val Gln Glu Gln His		
260 265	270	
Arg Gln Lys His Phe Glu Lys Arg Arg Asn Pro Ala Ala Asn Leu Ile		
275 280	285	
Gln Cys Val Trp Arg Ser Tyr Ala Ala Asp Glu Lys Ser Val Ser Ile		
290 295	300	
Ala Thr Trp Lys Pro His Leu Lys Ala Leu His Thr Cys Ser Pro Thr		
305 310	315	320
Lys Lys Glu Gln Gly Glu Ala Ser Ser Ser Gln Lys Leu Ser Phe Lys		
325 330	335	
Glu Arg Val Arg Met Ala Ser Pro Arg Gly Gln Ser Ile Lys Ser Arg		
340 345	350	
Gln Ala Ser Val Gly Asp Arg Arg Ser Pro Ser Thr Asp Ile Thr Ala		
355 360	365	
Glu Gly Ser Pro Thr Lys Val Gln Lys Ser Trp Ser Phe Asn Asp Arg		
370 375	380	
Thr Arg Phe Arg Pro Ser Leu Arg Leu Lys Ser Ser Gln Pro Lys Pro		
385 390	395	400
Val Ile Asp Ala Asp Thr Ala Leu Gly Thr Asp Asp Val Tyr Asp Glu		
405 410	415	
Lys Gly Cys Gln Cys Asp Val Ser Val Glu Asp Leu Thr Pro Pro Leu		
420 425	430	
Lys Thr Val Ile Arg Ala Ile Arg Ile Met Lys Phe His Val Ala Lys		
435 440	445	
Arg Lys Phe Lys Glu Thr Leu Arg Pro Tyr Asp Val Lys Asp Val Ile		
450 455	460	
Glu Gln Tyr Ser Ala Gly His Leu Asp Met Leu Cys Arg Ile Lys Ser		
465 470	475	480
Leu Gln Thr Arg Val Asp Gln Ile Leu Gly Lys Gly Gln Ile Thr Ser		
485 490	495	
Asp Lys Lys Ser Arg Glu Lys Ile Thr Ala Glu His Glu Thr Thr Asp		
500 505	510	
Asp Leu Ser Met Leu Gly Arg Val Val Lys Val Glu Lys Gln Val Gln		
515 520	525	
Ser Ile Glu Ser Lys Leu Asp Cys Leu Leu Asp Ile Tyr Gln Gln Val		
530 535	540	

Leu Arg Lys Gly Ser Ala Ser Ala Leu Ala Leu Ala Ser Phe Gln Ile
 545 550 555 560
 Pro Pro Phe Glu Cys Glu Gln Thr Ser Asp Tyr Gln Ser Pro Val Asp
 565 570 575
 Ser Lys Asp Leu Ser Gly Ser Ala Gln Asn Ser Gly Cys Leu Ser Arg
 580 585 590
 Ser Thr Ser Ala Asn Ile Ser Arg Gly Leu Gln Phe Ile Leu Thr Pro
 595 600 605
 Asn Glu Phe Ser Ala Gln Thr Phe Tyr Ala Leu Ser Pro Thr Met His
 610 615 620
 Ser Gln Ala Thr Gln Val Pro Ile Ser Gln Ser Asp Gly Ser Ala Val
 625 630 635 640
 Ala Ala Thr Asn Thr Ile Ala Asn Gln Ile Asn Thr Ala Pro Lys Pro
 645 650 655
 Ala Ala Pro Thr Thr Leu Gln Ile Pro Pro Pro Leu Pro Ala Ile Lys
 660 665 670
 His Leu Pro Arg Pro Glu Thr Leu His Pro Asn Pro Ala Gly Leu Gln
 675 680 685
 Glu Ser Ile Ser Asp Val Thr Thr Cys Leu Val Ala Ser Lys Glu Asn
 690 695 700
 Val Gln Val Ala Gln Ser Asn Leu Thr Lys Asp Arg Ser Met Arg Lys
 705 710 715 720
 Ser Phe Asp Met Gly Gly Glu Thr Leu Leu Ser Val Cys Pro Met Val
 725 730 735
 Pro Lys Asp Leu Gly Lys Ser Leu Ser Val Gln Asn Leu Ile Arg Ser
 740 745 750
 Thr Glu Glu Leu Asn Ile Gln Leu Ser Gly Ser Glu Ser Ser Ala Ser
 755 760 765
 Arg Gly Ser Gln Asp Phe Tyr Pro Lys Trp Arg Glu Ser Lys Leu Phe
 770 775 780
 Ile Thr Asp Glu Glu Val Gly Pro Glu Glu Thr Glu Thr Asp Thr Phe
 785 790 795 800
 Asp Ala Ala Pro Gln Pro Ala Arg Glu Ala Ala Phe Ala Ser Asp Ser
 805 810 815
 Leu Arg Thr Gly Arg Ser Arg Ser Ser Gln Ser Ile Cys Lys Ala Gly
 820 825 830
 Glu Ser Thr Asp Ala Leu Ser Leu Pro His Val Lys Leu Lys
 835 840 845

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 <212> PRT
 <213> Homo Sapiens

<400> 4

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Asp	Ala	Pro	Arg	Ala	Glu	Leu	Val	Ala	Leu	Thr	Ala	Val	Gln	Ser	Glu
															30
Gln	Gly	Glu	Ala	Gly	Gly	Gly	Ser	Pro	Arg	Arg	Leu	Gly	Leu	Leu	
															45
Gly	Ser	Pro	Leu	Pro	Pro	Gly	Ala	Pro	Leu	Pro	Gly	Pro	Gly	Ser	Gly
															60
Ser	Gly	Ser	Ala	Cys	Gly	Gln	Arg	Ser	Ser	Ala	Ala	His	Lys	Arg	Tyr
65															80
Arg	Arg	Leu	Gln	Asn	Trp	Val	Tyr	Asn	Val	Leu	Glu	Arg	Pro	Arg	Gly

85	90	95	
Trp Ala Phe Val Tyr His Val Phe Ile Phe Leu Leu Val Phe Ser Cys			
100	105	110	
Leu Val Leu Ser Val Leu Ser Thr Ile Gln Glu His Gln Glu Leu Ala			
115	120	125	
Asn Glu Cys Leu Leu Ile Leu Glu Phe Val Met Ile Val Val Phe Gly			
130	135	140	
Leu Glu Tyr Ile Val Arg Val Trp Ser Ala Gly Cys Cys Cys Arg Tyr			
145	150	155	160
Arg Gly Trp Gln Gly Arg Phe Arg Phe Ala Arg Lys Pro Phe Cys Val			
165	170	175	
Ile Asp Phe Ile Val Phe Val Ala Ser Val Ala Val Ile Ala Ala Gly			
180	185	190	
Thr Gln Gly Asn Ile Phe Ala Thr Ser Ala Leu Arg Ser Met Arg Phe			
195	200	205	
Leu Gln Ile Leu Arg Met Val Arg Met Asp Arg Arg Gly Gly Thr Trp			
210	215	220	
Lys Leu Leu Gly Ser Val Val Tyr Ala His Ser Lys Glu Leu Ile Thr			
225	230	235	240
Ala Trp Tyr Ile Gly Phe Leu Val Leu Ile Phe Ala Ser Phe Leu Val			
245	250	255	
Tyr Leu Ala Glu Lys Asp Ala Asn Ser Asp Phe Ser Ser Tyr Ala Asp			
260	265	270	
Ser Leu Trp Trp Gly Thr Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp			
275	280	285	
Lys Thr Pro His Thr Trp Leu Gly Arg Val Leu Ala Ala Gly Phe Ala			
290	295	300	
Leu Leu Gly Ile Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser			
305	310	315	320
Gly Phe Ala Leu Lys Val Gln Glu Gln His Arg Gln Lys His Phe Glu			
325	330	335	
Lys Arg Arg Met Pro Ala Ala Asn Leu Ile Gln Ala Ala Trp Arg Leu			
340	345	350	
Tyr Ser Thr Asp Met Ser Arg Ala Tyr Leu Thr Ala Thr Trp Tyr Tyr			
355	360	365	
Tyr Asp Ser Ile Leu Pro Ser Phe Arg Glu Leu Ala Leu Leu Phe Glu			
370	375	380	
His Val Gln Arg Ala Arg Asn Gly Gly Leu Arg Pro Leu Glu Val Arg			
385	390	395	400
Arg Ala Pro Val Pro Asp Gly Ala Pro Ser Arg Tyr Pro Pro Val Ala			
405	410	415	
Thr Cys His Arg Pro Gly Ser Thr Ser Phe Cys Pro Gly Glu Ser Ser			
420	425	430	
Arg Met Gly Ile Lys Asp Arg Ile Arg Met Gly Ser Ser Gln Arg Arg			
435	440	445	
Thr Gly Pro Ser Lys Gln Gln Leu Ala Pro Pro Thr Met Pro Thr Ser			
450	455	460	
Pro Ser Ser Glu Gln Val Gly Glu Ala Thr Ser Pro Thr Lys Val Gln			
465	470	475	480
Lys Ser Trp Ser Phe Asn Asp Arg Thr Arg Phe Arg Ala Ser Leu Arg			
485	490	495	
Leu Lys Pro Arg Thr Ser Ala Glu Asp Ala Pro Ser Glu Glu Val Ala			
500	505	510	
Glu Glu Lys Ser Tyr Gln Cys Glu Leu Thr Val Asp Asp Ile Met Pro			
515	520	525	
Ala Val Lys Thr Val Ile Arg Ser Ile Arg Ile Leu Lys Phe Leu Val			
530	535	540	

Ala	Lys	Arg	Lys	Phe	Lys	Glu	Thr	Leu	Arg	Pro	Tyr	Asp	Val	Lys	Asp
545				550				555							560
Val	Ile	Glu	Gln	Tyr	Ser	Ala	Gly	His	Leu	Asp	Met	Leu	Gly	Arg	Ile
				565					570						575
Lys	Ser	Leu	Gln	Thr	Arg	Val	Asp	Gln	Ile	Val	Gly	Arg	Gly	Pro	Gly
				580				585							590
Asp	Arg	Lys	Ala	Arg	Glu	Lys	Gly	Asp	Lys	Gly	Pro	Ser	Asp	Ala	Glu
				595				600							605
Val	Val	Asp	Glu	Ile	Ser	Met	Met	Gly	Arg	Val	Val	Lys	Val	Glu	Lys
				610				615				620			
Gln	Val	Gln	Ser	Ile	Glu	His	Lys	Leu	Asp	Leu	Leu	Gly	Phe	Tyr	
					630				635						640
Ser	Arg	Cys	Leu	Arg	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Gly	Ala	Val	Gln
				645				650							655
Val	Pro	Leu	Phe	Asp	Pro	Asp	Ile	Thr	Ser	Asp	Tyr	His	Ser	Pro	Val
				660				665				670			
Asp	His	Glu	Asp	Ile	Ser	Val	Ser	Ala	Gln	Thr	Leu	Ser	Ile	Ser	Arg
				675				680				685			
Ser	Val	Ser	Thr	Asn	Met	Asp									
				690				695							

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 <213> Homo Sapiens

<400> 5															
Ser	Leu	Leu	Gly	Pro	Leu	Ser	Ser	Ser	Cys	Arg	Lys	Tyr	Arg	Arg	Gln
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Asn	Tyr	Asn	Val	Leu	Glu	Arg	Pro	Arg	Gly	Trp	Ala	Phe	Tyr	His	Phe
						20		25							30
Phe	Leu	Leu	Val	Phe	Cys	Leu	Leu	Ser	Val	Ser	Thr	Ile	Glu	His	Leu
						35		40				45			
Ala	Cys	Leu	Leu	Ile	Leu	Glu	Phe	Val	Met	Ile	Val	Val	Phe	Gly	Leu
						50		55			60				
Glu	Ile	Arg	Trp	Ser	Ala	Gly	Cys	Cys	Arg	Tyr	Arg	Gly	Trp	Gln	
						65		70		75					80
Gly	Arg	Arg	Phe	Ala	Arg	Lys	Pro	Phe	Cys	Val	Ile	Asp	Ile	Val	Ala
						85		90				95			
Ser	Ala	Val	Ala	Thr	Gln	Gly	Asn	Ile	Phe	Ala	Thr	Ser	Ala	Leu	Arg
						100		105				110			
Ser	Arg	Phe	Leu	Gln	Ile	Leu	Arg	Met	Val	Arg	Met	Asp	Arg	Arg	Gly
						115		120				125			
Gly	Thr	Trp	Lys	Leu	Leu	Gly	Ser	Val	Val	Tyr	Ala	His	Ser	Lys	Glu
						130		135			140				
Leu	Ile	Thr	Ala	Trp	Tyr	Ile	Gly	Phe	Leu	Val	Leu	Ile	Phe	Ser	Phe
						145		150		155					160
Leu	Val	Tyr	Leu	Glu	Lys	Asp	Ala	Asn	Phe	Ser	Tyr	Ala	Asp	Leu	Trp
						165		170				175			
Trp	Gly	Thr	Ile	Thr	Leu	Thr	Thr	Ile	Gly	Tyr	Gly	Asp	Lys	Thr	Pro
						180		185				190			
Thr	Trp	Leu	Gly	Arg	Leu	Ala	Gly	Phe	Ala	Leu	Leu	Gly	Ile	Ser	Phe
						195		200				205			
Phe	Ala	Leu	Pro	Ala	Gly	Ile	Leu	Gly	Ser	Gly	Phe	Ala	Leu	Lys	Val
						210		215			220				
Gln	Glu	Gln	His	Arg	Gln	Lys	His	Phe	Glu	Lys	Arg	Arg	Pro	Ala	Ala

225	230	235	240												
Asn	Leu	Ile	Gln	Trp	Arg	Tyr	Asp	Ser	Ala	Thr	Trp	Leu	Ala	Leu	Thr
245									250					255	
Cys	Pro	Thr	Gly	Glu	Ser	Ser	Lys	Arg	Arg	Met	Ser	Arg	Gly	Ser	Lys
260								265					270		
Ala	Ser	Pro	Ser	Glu	Ser	Pro	Thr	Lys	Val	Gln	Lys	Ser	Trp	Ser	Phe
275							280					285			
Asn	Asp	Arg	Thr	Arg	Phe	Arg	Ser	Leu	Arg	Leu	Lys	Pro	Ala	Ala	Val
290							295				300				
Glu	Lys	Gln	Cys	Val	Asp	Pro	Lys	Thr	Val	Ile	Arg	Ile	Arg	Ile	Lys
305							310			315			320		
Phe	Val	Ala	Lys	Arg	Lys	Phe	Lys	Glu	Thr	Leu	Arg	Pro	Tyr	Asp	Val
325							330			335					
Lys	Asp	Val	Ile	Glu	Gln	Tyr	Ser	Ala	Gly	His	Leu	Asp	Met	Leu	Arg
340							345			350					
Ile	Lys	Ser	Leu	Gln	Thr	Arg	Val	Asp	Gln	Ile	Gly	Gly	Asp	Lys	Arg
355							360			365					
Glu	Lys	Glu	Asp	Ser	Met	Gly	Arg	Val	Val	Lys	Val	Glu	Lys	Gln	Val
370							375			380					
Gln	Ser	Ile	Glu	Lys	Leu	Asp	Leu	Leu	Tyr	Leu	Arg	Gly	Ser	Ala	Ser
385							390			395			400		
Leu	Gln	Pro	Phe	Thr	Ser	Asp	Tyr	Ser	Pro	Val	Asp	Asp	Ser	Ser	Ala
405							410						415		
Gln	Ser	Ser	Arg	Ser	Ser	Asn									
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 <213> Homo Sapiens

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Met	Val	Gln	Lys	Ser	Arg	Asn	Gly	Gly	Val	Tyr	Pro	Gly	Pro	Ser	Gly
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Glu	Lys	Lys	Leu	Lys	Val	Gly	Phe	Val	Gly	Leu	Asp	Pro	Gly	Ala	Pro
							20			25			30		
Asp	Ser	Thr	Arg	Asp	Gly	Ala	Leu	Leu	Ile	Ala	Gly	Ser	Glu	Ala	Pro
							35			40			45		
Lys	Arg	Gly	Ser	Ile	Leu	Ser	Lys	Pro	Arg	Ala	Gly	Gly	Ala	Gly	Ala
							50			55			60		
Gly	Lys	Pro	Pro	Lys	Arg	Asn	Ala	Phe	Tyr	Arg	Lys	Leu	Gln	Asn	Phe
							65			70			75		80
Leu	Tyr	Asn	Val	Leu	Glu	Arg	Pro	Arg	Gly	Trp	Ala	Phe	Ile	Tyr	His
							85			90			95		
Ala	Tyr	Val	Phe	Leu	Leu	Val	Phe	Ser	Cys	Leu	Val	Leu	Ser	Val	Phe
							100			105			110		
Ser	Thr	Ile	Lys	Glu	Tyr	Glu	Lys	Ser	Ser	Glu	Gly	Ala	Leu	Tyr	Ile
							115			120			125		
Leu	Glu	Ile	Val	Thr	Ile	Val	Val	Phe	Gly	Val	Glu	Tyr	Phe	Val	Arg
							130			135			140		
Ile	Trp	Ala	Ala	Gly	Cys	Cys	Arg	Tyr	Arg	Gly	Trp	Arg	Gly	Arg	
							145			150			155		160
Leu	Lys	Phe	Ala	Arg	Lys	Pro	Phe	Cys	Val	Ile	Asp	Ile	Met	Val	Leu
							165			170			175		
Ile	Ala	Ser	Ile	Ala	Val	Leu	Ala	Ala	Gly	Ser	Gln	Gly	Asn	Val	Phe
							180			185			190		

Ala Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met
 195 200 205
 Ile Arg Met Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly Ser Val
 210 215 220
 Val Tyr Ala His Ser Lys Glu Leu Val Thr Ala Trp Tyr Ile Gly Phe
 225 230 235 240
 Leu Cys Leu Ile Leu Ala Ser Phe Leu Val Tyr Leu Ala Glu Lys Gly
 245 250 255
 Glu Asn Asp His Phe Asp Thr Tyr Ala Asp Ala Leu Trp Trp Gly Leu
 260 265 270
 Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp Lys Tyr Pro Gln Thr Trp
 275 280 285
 Asn Gly Arg Leu Leu Ala Ala Thr Phe Thr Leu Ile Gly Val Ser Phe
 290 295 300
 Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val
 305 310 315 320
 Gln Glu Gln His Arg Gln Lys His Phe Glu Lys Arg Arg Asn Pro Ala
 325 330 335
 Ala Gly Leu Ile Gln Ser Ala Trp Arg Phe Tyr Ala Thr Asn Leu Ser
 340 345 350
 Arg Thr Asp Leu His Ser Thr Trp Gln Tyr Tyr Glu Arg Thr Val Thr
 355 360 365
 Val Pro Met Tyr Arg Leu Ile Pro Pro Leu Asn Gln Leu Glu Leu Leu
 370 375 380
 Arg Asn Leu Lys Ser Lys Ser Gly Leu Ala Phe Arg Lys Asp Pro Pro
 385 390 395 400
 Pro Glu Pro Ser Pro Ser Gln Lys Val Ser Leu Lys Asp Arg Val Phe
 405 410 415
 Ser Ser Pro Arg Gly Val Ala Ala Lys Gly Lys Gly Ser Pro Gln Ala
 420 425 430
 Gln Thr Val Arg Arg Ser Pro Ser Ala Asp Gln Ser Leu Glu Asp Ser
 435 440 445
 Pro Ser Lys Val Pro Lys Ser Trp Ser Phe Gly Asp Arg Ser Arg Ala
 450 455 460
 Arg Gln Ala Phe Arg Ile Lys Gly Ala Ala Ser Arg Gln Asn Ser Glu
 465 470 475 480
 Glu Ala Ser Leu Pro Gly Glu Asp Ile Val Asp Asp Lys Ser Cys Pro
 485 490 495
 Cys Glu Phe Val Thr Glu Asp Leu Thr Pro Gly Leu Lys Val Ser Ile
 500 505 510
 Arg Ala

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 <213> Homo Sapiens

<400> 7
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 Asp Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
 20 25 30
 Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly
 35 40 45
 Asp Val Glu Gln Val Thr Leu Ala Leu Gly Ala Gly Asp Lys Asp

50	55	60	
Gly Thr Leu Leu Leu Glu	Gly Gly Arg Asp	Glu Gly Gln Arg Arg	
65	70	75	80
Thr Pro Gln Gly Ile Gly	Leu Leu Ala Lys	Thr Pro Leu Ser Arg	Pro
85	90		95
Val Lys Arg Asn Asn Ala Lys	Tyr Arg Arg Ile	Gln Thr Leu Ile	Tyr
100	105		110
Asp Ala Leu Glu Arg Pro Arg	Gly Trp Ala	Leu Tyr His Ala	Leu
115	120		125
Val Phe Leu Ile Val Leu Gly	Cys Leu Ile	Leu Ala Val	Leu Thr Thr
130	135		140
Phe Lys Glu Tyr Glu Thr Val	Ser Gly Asp	Trp Leu Leu	Leu Glu
145	150		160
Thr Phe Ala Ile Phe Ile	Phe Gly Ala	Glu Phe Ala	Leu Arg Ile
165	170		175
Ala Ala Gly Cys Cys Arg	Tyr Lys Gly	Trp Arg Gly	Arg Leu Lys
180	185		190
Phe Ala Arg Lys Pro Leu Cys	Met Leu Asp	Ile Phe Val	Leu Ile Ala
195	200		205
Ser Val Pro Val Val Ala Val	Gly Asn Gln	Gly Asn Val	Leu Ala Thr
210	215		220
Ser Leu Arg Ser Leu Arg	Phe Leu Gln	Ile Leu Arg	Met Leu Arg Met
225	230		240
Asp Arg Arg Gly Gly Thr	Trp Lys Leu	Leu Gly Ser	Ala Ile Cys Ala
245	250		255
His Ser Lys Glu Leu Ile	Thr Ala Trp	Tyr Ile Gly Phe	Leu Thr Leu
260	265		270
Ile Leu Ser Ser Phe Leu Val	Tyr Leu Val	Glu Lys Asp	Val Pro Glu
275	280		285
Val Asp Ala Gln Gly Glu	Glu Met Lys	Glu Phe Glu	Thr Tyr Ala
290	295		300
Asp Ala Leu Trp Trp Gly	Leu Ile Thr	Leu Ala Thr	Ile Gly Tyr Gly
305	310		320
Asp Lys Thr Pro Lys Thr	Trp Glu Gly	Arg Leu Ile	Ala Ala Thr Phe
325	330		335
Ser Leu Ile Gly Val Ser	Phe Ala Leu	Pro Ala Gly	Ile Leu Gly
340	345		350
Ser Gly Leu Ala Leu Lys	Val Gln Glu	Gln His Arg	Gln Lys His Phe
355	360		365
Glu Lys Arg Arg Lys Pro	Ala Ala Glu	Leu Ile Gln	Ala Ala Trp Arg
370	375		380
Tyr Tyr Ala Thr Asn Pro	Asn Arg Ile	Asp Leu Val	Ala Thr Trp Arg
385	390		400
Phe Tyr Glu Ser Val Val	Ser Phe Pro	Phe Arg Lys	Glu Gln Leu
405	410		415
Glu Ala Ala Ser Ser Gln	Lys Leu Gly	Leu Asp Arg	Val Arg Leu
420	425		430
Ser Asn Pro Arg Gly Ser	Asn Thr Lys	Gly Lys Leu	Phe Thr Pro Leu
435	440		445
Asn Val Asp Ala Ile Glu	Glu Ser Pro	Ser Lys Glu	Pro Pro Lys Pro Val
450	455		460
Gly Leu Asn Asn Lys	Glu Arg Phe	Arg Thr Ala	Phe Arg Met Lys Ala
465	470		480
Tyr Ala Phe Trp Gln Ser	Ser Glu Asp	Ala Gly Thr	Gly Asp Pro Met
485	490		495
Ala Glu Asp Arg Gly	Tyr Gly Asn	Asp Phe	Pro Ile Glu Asp Met Ile
500	505		510

Pro Thr Leu Lys Ala Ala Ile Arg Ala
 515 520

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 Phe Ala Arg Lys Pro Asp Val Ala Ser Val Gly Ala Thr Ser Arg Arg
 35 40 45
 Phe Leu Gln Ile Leu Arg Met Asp Arg Gly Gly Thr Trp Leu Leu Gly
 50 55 60
 Ser His Glu Leu Thr Tyr Ile Gly Phe Leu Leu Ile Ser Val Tyr Leu
 65 70 75 80
 Glu Lys Phe Tyr Ala Asp Leu Trp Trp Gly Thr Thr Ile Gly Tyr Gly
 85 90 95
 Asp Lys Pro Thr Trp Gly Phe Ser Phe Phe Ala Leu Pro Ala Gly Ile
 100 105 110
 Leu Gly Ser Gly Ala Leu Lys Val Gln Arg Gln Lys His Phe Ala Ala
 115 120 125
 Leu Ile Gln Trp Arg Tyr Thr Trp Leu Ser Lys Glu Ala Ile
 130 135 140

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Ala Val Phe Leu Ile Val Leu Val Cys Leu Ile Phe Ser Val Leu Ser			
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Thr Ile Glu Gln Tyr Ala Ala Leu Ala Thr Gly Thr Leu Phe Trp Met			
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Glu Ile Val Leu Val Val Phe Phe Gly Thr Glu Tyr Val Val Arg Leu			
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Trp Ser Ala Gly Cys Arg Ser Lys Tyr Val Gly Leu Trp Gly Arg Leu			
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Arg Phe Ala Arg Lys Pro Ile Ser Ile Ile Asp Leu Ile Val Val Val			
100	105	110	
Ala Ser Met Val Val Leu Cys Val Gly Ser Lys Gly Gln Val Phe Ala			
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Thr Ser Ala Ile Arg Gly Ile Arg Phe Leu Gln Ile Leu Arg Met Leu			
130	135	140	
His Val Asp Arg Gln Gly Gly Thr Trp Arg Leu Leu Gly Ser Val Val			
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Phe Ile His Arg Gln Glu Leu Ile Thr Thr Leu Tyr Ile Gly Phe Leu			
165	170	175	
Gly Leu Ile Phe Ser Ser Tyr Phe Val Tyr Leu Ala Glu Lys Asp Ala			
180	185	190	
Val Asn Glu Ser Gly Arg Val Glu Phe Gly Ser Tyr Ala Asp Ala Leu			
195	200	205	
Trp Trp Gly Val Val Thr Val Thr Thr Ile Gly Tyr Gly Asp Lys Val			
210	215	220	
Pro Gln Thr Trp Val Gly Lys Thr Ile Ala Ser Cys Phe Ser Val Phe			
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Ala Ile Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe			
245	250	255	
Ala Leu Lys Val Gln Gln Lys Gln Arg Gln Lys His Phe Asn Arg Gln			
260	265	270	

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Pro Arg Ser His Thr Leu Leu Ser Pro Ser Pro Lys Pro Lys Lys Ser
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Val Val Val Lys Lys Lys Phe Lys Leu Asp Lys Asp Asn Gly Val
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Ser Val Arg Lys Ser Pro Thr Leu Leu Glu Val Ser Met Pro His Phe
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Met Arg Thr Asn Ser Phe Ala Glu Asp Leu Asp Leu Glu Gly Glu Thr
385 390 395 400
Leu Leu Thr Pro Ile Thr His Ile Ser Gln Leu Arg Glu His His Arg
405 410 415
Ala Thr Ile Lys Val
420